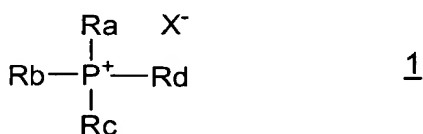


IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by the general formula $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})\text{X}^-]$ described below is contained:

~~{Formula 1}~~



$[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})\text{X}^-]$ wherein in ~~Formula 1~~, Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})\text{X}^-]$.

Claim 2 (Currently Amended): The An ink for ink jet recording according to claim 1, wherein the counter ion is a hydroxyl ion.

Claim 3 (Currently Amended): The An ink for ink jet recording according to claim 1, wherein pH of the ink is within a range of 7 to 10.

Claim 4 (Currently Amended): The An ink for ink jet recording according to claim 1, used for an ink jet printer in which at least a portion of a liquid chamber member is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal

silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

Claim 5 (Currently Amended): The ~~An~~ ink for ink jet recording according to claim 1, used for an ink jet printer in which at least a portion of the member of a fluid resistance part is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

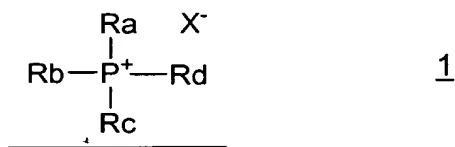
Claim 6 (Currently Amended): The ~~An~~ ink for ink jet recording according to claim 1, used for an ink jet printer in which at least a portion of the member of a vibration plate is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

Claim 7 (Currently Amended): The ~~An~~ ink for ink jet recording according to claim 1, used for an ink jet printer in which at least a portion of the member of a nozzle is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

Claims 8-34 (Canceled).

Claim 35 (Currently Amended): An ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any

one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by ~~the above mentioned~~ ~~general formula~~ $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-$ based on the equivalent of an anionic compound which is contained in the ink is contained:



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 36 (Currently Amended): The An ink for ink jet recording according to claim 35, wherein pH of the ink is within a range of 7 to 10.

Claim 37 (Currently Amended): The An ink for ink jet recording according to claim 35, used for an ink jet printer in which at least a portion of a liquid chamber member is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

Claim 38 (Currently Amended): The An ink for ink jet recording according to claim 35, used for an ink jet printer in which at least a portion of the member of a fluid resistance part is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass,

single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

Claim 39 (Currently Amended): The ~~An~~ ink for ink jet recording according to claim 35, used for an ink jet printer in which at least a portion of the member of a vibration plate is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

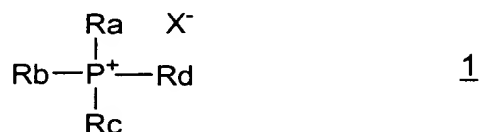
Claim 40 (Currently Amended): The ~~An~~ ink for ink jet recording according to claim 35, used for an ink jet printer in which at least a portion of the member of a nozzle is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film.

Claims 41-69 (Canceled).

Claim 70 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of a liquid chamber member is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide

film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by the general formula $[(\text{Ra})_4\text{P}^+\text{X}^-]$ described below is contained:

~~{Formula 1}~~



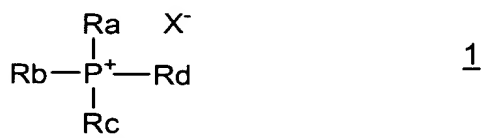
$[(\text{Ra})_4\text{P}^+\text{X}^-]$ wherein in ~~Formula 1~~, Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion $[(\text{Ra})_4\text{P}^+\text{X}^-]$.

Claim 71 (Withdrawn): An ink jet recording method according to claim 70, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 72-79 (Canceled).

Claim 80 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of a liquid chamber member is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide

film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by ~~the above mentioned~~ ~~general formula~~ $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-$ based on the equivalent of an anionic compound which is contained in the ink is contained



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

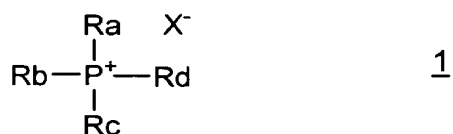
Claim 81 (Withdrawn): An ink jet recording method according to claim 80, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 82-89 (Canceled).

Claim 90 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of the member of a fluid resistance part is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive

glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by the general formula $[(\text{R})_4\text{P}^+\text{X}^-]$ described below is contained:

~~{Formula 1}~~



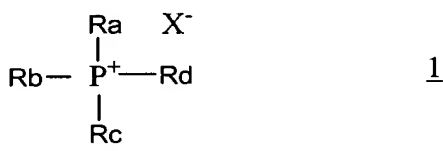
$[(\text{R})_4\text{P}^+\text{X}^-]$ wherein in formula 1 Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion $[(\text{R})_4\text{P}^+\text{X}^-]$.

Claim 91 (Withdrawn): An ink jet recording method according to claim 90, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 92-99 (Canceled).

Claim 100 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of the member of a fluid resistance part is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact

with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by ~~the above mentioned general formula~~ $[(\text{P}^+(\text{Ra})(\text{Rb})(\text{Rc})(\text{Rd}))\text{X}^-]$ based on the equivalent of an anionic compound which is contained in the ink is contained



wherein Ra, Rb, Rc and Rd represent a linear, branched or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 101 (Withdrawn): An ink jet recording method according to claim 100, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 102-109 (Canceled).

Claim 110 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of the member of a vibration plate is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium

film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by the general formula
$$\begin{array}{c} \text{Ra} \quad \text{X}^- \\ | \\ \text{Rb} - \text{P}^+ - \text{Rd} \\ | \\ \text{Rc} \end{array} \quad 1$$
 described below is contained:

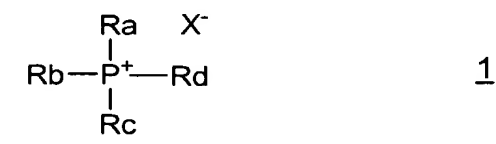
wherein in Formula 1, Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X- represents a counter ion.

Claim 111 (Withdrawn): An ink jet recording method according to claim 110, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 112-119 (Canceled).

Claim 120 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of the member of a vibration plate is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium

film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by the above-mentioned general formula (Formula 1[[]]) based on the equivalent of an anionic compound which is contained in the ink is contained



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

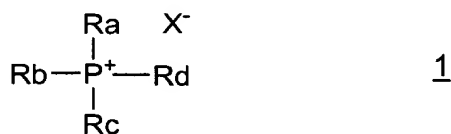
Claim 121 (Withdrawn): An ink jet recording method according to claim 120, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 122-129 (Canceled).

Claim 130 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of the member of a nozzle is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single

crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by the general formula $[(\text{Ra})_4\text{P}^+\text{X}^-]$ described below is contained:

[Formula 1]



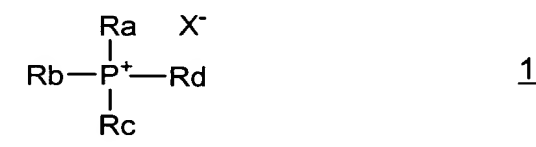
wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 131 (Withdrawn): An ink jet recording method according to claim 130, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 132-139 (Canceled).

Claim 140 (Withdrawn, Currently Amended): An ink jet recording method carrying out recording using an ink jet printer in which at least a portion of the member of a nozzle is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single

crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, and the ink for ink jet recording used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by ~~the above mentioned~~ ~~general formula~~ (Formula 1 [()]) based on the equivalent of an anionic compound which is contained in the ink is contained



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 141 (Withdrawn): An ink jet recording method according to claim 140, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

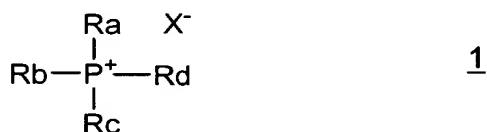
Claim 142-160 (Canceled).

Claim 161 (Withdrawn, Currently Amended): A recording liquid cartridge equipped with a recording liquid storing part which stores a recording liquid, wherein the recording

liquid is a recording liquid used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by the general formula

described below is contained:

[Formula 1]



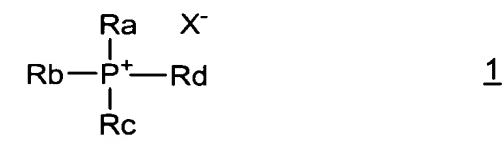
wherein in Formula 1, Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 162 (Withdrawn): An ink jet recording method according to claim 161, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 163-170 (Canceled).

Claim 171 (Withdrawn, Currently Amended): A recording liquid cartridge equipped with a recording liquid storing part which stores a recording liquid, wherein the recording liquid is a recording liquid used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a

photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by ~~the above mentioned general formula~~ $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-$ based on the equivalent of an anionic compound which is contained in the ink is contained



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

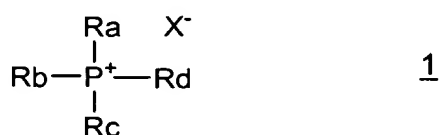
Claim 172 (Withdrawn): An ink jet recording method according to claim 171, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 173-180 (Canceled).

Claim 181 (Withdrawn, Currently Amended): A recording liquid cartridge equipped with a recording liquid storing part which stores a recording liquid, and a head part for discharging the drops of recording liquid, wherein the recording liquid is a recording liquid used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium

film, a titanium oxide film, and a silicon nitride film, wherein a corrosion inhibitor is contained, and a phosphonium ion represented by ~~the general formula~~ $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-$ described below is contained:

~~{Formula 1}~~



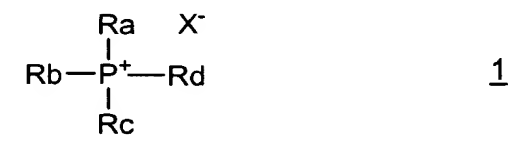
~~[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-~~ wherein ~~in Formula 1~~, Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion~~[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-~~.

Claim 182 (Withdrawn): An ink jet recording method according to claim 181, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 183-190 (Canceled).

Claim 191 (Withdrawn, Currently Amended): A recording liquid cartridge equipped with a recording liquid storing part which stores a recording liquid, and a head part for discharging the drops of recording liquid, wherein the recording liquid is a recording liquid used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali

metals in the ink is 700ppm or less, and 30% or more of a phosphonium ion represented by ~~the above mentioned general formula~~ $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-$ based on the equivalent of an anionic compound which is contained in the ink is contained



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

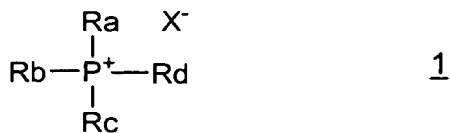
Claim 192 (Withdrawn): An ink jet recording method according to claim 191, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 193-200 (Canceled).

Claim 201 (Withdrawn, Currently Amended): An inkjet recording apparatus equipped with a recording liquid cartridge having a recording liquid storing part which stores a recording liquid, and a head part for discharging the drops of recording liquid, wherein the recording liquid is a recording liquid used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film,

wherein a corrosion inhibitor is contained, and a phosphonium ion represented by ~~the general~~
~~formula~~ $[(\text{Ra})\text{P}^+(\text{Rb})(\text{Rc})(\text{Rd})]\text{X}^-$ described below is contained:

~~{Formula-1}~~



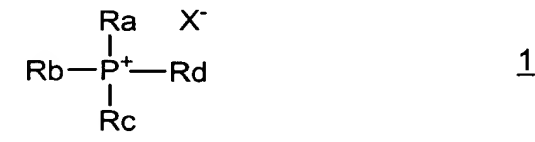
~~[[()]]~~ wherein ~~in Formula 1~~, Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion~~[[()]]~~.

Claim 202 (Withdrawn): An ink jet recording method according to claim 201, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 203-210 (Canceled).

Claim 211 (Withdrawn, Currently Amended): An inkjet recording apparatus equipped with a recording liquid cartridge having a recording liquid storing part which stores a recording liquid, and a head part for discharging the drops of recording liquid, wherein the recording liquid is a recording liquid used for an ink jet printer in which at least a portion of a member being in contact with the ink is formed by any one of a borosilicate glass, a soda lime glass, a photosensitive glass, single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, and a silicon nitride film, wherein the total of the content of alkali metals in the ink is 700ppm or less, and 30% or more

of a phosphonium ion represented by ~~the above-mentioned general formula~~ (Formula 1[[[]]]) based on the equivalent of an anionic compound which is contained in the ink is contained



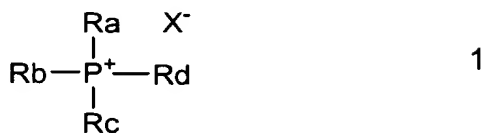
wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 212 (Withdrawn): An ink jet recording method according to claim 211, using an ink jet printer in which a groove is formed by treating the liquid chamber member, the fluid resistance part, the vibration plate or the nozzle by an etching treatment, a sandblast treatment, an excimer laser processing or drilling.

Claims 213-220 (Canceled).

Claim 221 (New): In an ink jet recording process comprising applying an ink to a substrate with an ink jet printer wherein the ink contacts a portion of the ink jet printer and wherein the portion contacted with ink comprises at least one of a borosilicate glass, a soda lime glass, a photosensitive glass, a single crystal silicon, a polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, or a silicon nitride film, wherein the improvement comprises:

applying an ink comprising a corrosion inhibitor and a phosphonium ion represented by Formula 1



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 222 (New): The ink jet recording process according to Claim 221, wherein X⁻ is a hydroxyl ion.

Claim 223 (New): The ink jet recording process according to Claim 221, wherein the pH of the ink is from 7 to 10.

Claim 224 (New): The ink jet recording process according to Claim 221, wherein the portion in contact with the ink is a liquid chamber.

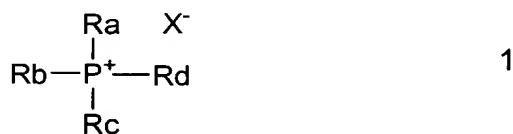
Claim 225 (New): The ink jet recording process according to Claim 221, wherein the portion of the ink jet printer is a fluid resistance part.

Claim 226 (New): The ink jet recording processing according to Claim 221, wherein the portion of the ink jet printer is a vibration plate.

Claim 227 (New): The ink jet recording process according to Claim 221, wherein the portion of the ink jet printer is a nozzle.

Claim 228 (New): In an ink jet recording process comprising applying an ink to a substrate with an ink jet printer wherein at least a portion of the ink jet printer is in contact with the ink and comprises at least one of a borosilicate glass, a soda lime glass, a photosensitive glass, a single crystal silicon, polysilicon, a silicon oxide film, a titanium nitride film, a zirconium film, a titanium oxide film, or a silicon nitride film, wherein the improvement comprises

applying an ink having an alkaline metal concentration of 700 ppm or less and wherein 30% or more of the anionic compounds present in the ink are one or more phosphonium ions represented by Formula 1



wherein Ra, Rb, Rc and Rd represent a linear, branched, or cyclic alkyl group having 1 to 4 carbon atoms, a hydroxyalkyl group, a halogenated alkyl group and a substituted or non-substituted phenyl group, and X⁻ represents a counter ion.

Claim 229 (New): The ink jet recording process according to Claim 228, wherein X⁻ is a hydroxyl ion.

Claim 230 (New): The ink jet recording process according to Claim 228, wherein the pH of the ink is from 7 to 10.

Claim 231 (New): The ink jet recording process according to Claim 228, wherein the portion in contact with the ink is a liquid chamber.

Claim 232 (New): The ink jet recording process according to Claim 228, wherein the portion of the ink jet printer is a fluid resistance part.

Claim 233 (New): The ink jet recording processing according to Claim 228, wherein the portion of the ink jet printer is a vibration plate.

Claim 234 (New): The ink jet recording process according to Claim 228, wherein the portion of the ink jet printer is a nozzle.

BASIS FOR THE AMENDMENT

Claims 1-7, 35-40, 70-71, 80-81, 90-91, 100-101, 110-111, 120-121, 130-131, 140-141, 161-162, 171-172, 181-182, 191-192, 201-202, and 211-212 are active in the present application. Claims 1-7 and 35-40 are currently under active prosecution. Claims 8-34 and 41-220 are non-elected claims currently withdrawn from prosecution. The original claims have been amended for clarity. The amendment to the original claims is not intended to further limit the claimed subject matter. Claims 8-34, 41-69, 72-79, 82-89, 92-99, 102-109, 112-119, 122-129, 132-139, 142-160, 163-170, 173-180, 183-190, 193-200, 203-210 and 213-220 are canceled.

Claims 70-71, 80-81, 90-91, 100-101, 110-111, 120-121, 130-131, 140-141, 161-162, 171-171, 181-182, 191-192, 201-202 and 211-212 are non-elected claims currently amended and withdrawn from prosecution.

Claims 221-234 are new claims. Support for the new claims is found in the original claims. No new matter is believed to have been added.

REQUEST FOR RECONSIDERATION

Applicants thank Examiner Faison for the helpful and courteous discussion of January 23, 2004. During the discussion, Applicants' U.S. representative presented arguments that at least one of the references cited against the claims of the present application in the Office Action of November 17, 2003 does not qualify as prior art against the present application.

The amendment to Claim 35 obviates the rejection under 35 U.S.C. § 112.

The Office rejected Claims 1-7 and 35-40 in view of a combination of Kaneko (US 6,637,875); Yamamuro (US 5,700,203); and Stoffel (US 4,994,110) under 35 U.S.C. § 103(a). Applicants traverse the rejection on the grounds that the Kaneko patent is not prior art to the presently claimed invention. The Kaneko patent issued on October 28, 2003 from U.S. Application Serial No. 10/103,729 filed on March 25, 2002. The present application was filed on October 1, 2001. Kaneko cannot be prior art to the present application since the filing date of the present application is before the filing date of Kaneko. Applicants respectfully request withdrawal of the rejection.

The Office rejected Claims 1-7 under the judicially created doctrine of obviousness-type double patenting in view of Claims 19-24, 28, 30, 33-35 and 38-42 of U.S. Application Serial No. 10/050,942. Applicants note that a Notice of Allowance has been mailed in copending 10/050,942. Claims 1-18, 45 and 46 are allowed in the copending application. Claims 19-44 were canceled in an Examiner's Amendment in the Notice of Allowance. Applicants submit that in view of the fact that Claims 19-44 have been canceled in the copending application, none of the claims of the present application can be obvious in view of Claims 19-23, 28, 30, 33-35 and 38-42. Applicants respectfully request the withdrawal of the obviousness-type double patenting rejection.

Applicants have added new Claims 221-234 written in Jepson format. Applicants submit that the subject matter of the new claims is patentable over the prior art of record as

evidenced by the inclusion of a limitation to the ink, such as the ink of present independent Claim 1, which appears to be patentable over the prior art of record. Applicants respectfully request allowance of the new claims.

REQUEST FOR REJOINDER

The Office required restriction of the present claims into several groups. Applicants note that original independent Claims 70, 80, 90, 100, 110, 120, 130, and 140 are drawn to ink jet recording methods that require the presence of the ink of present independent Claim 1. Since the methods of independent Claims 70, 80, 90, 100, 110, 120, 130, and 140 include all of the limitations of original Claim 1, Applicants submit the claims are in condition for rejoinder and allowance should the subject matter of Claim 1 be found allowable.

Original independent Claims 161, 171, 181, and 191 are drawn to a recording liquid cartridge wherein the ink of present Claim 1 is stored. Since the recording ink cartridge of Claims 161, 171, 181, and 191 includes all of the limitations of independent Claim 1, should Claim 1 be found to be allowable. Applicants respectfully request the withdrawal of the rejections and the allowance of independent Claims 161, 171, 181, and 191 and the claims dependent therefrom.

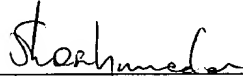
Independent Claims 201 and 211 are drawn to an ink jet recording apparatus having a liquid cartridge which stores the ink of present independent Claim 1. Since the recording apparatus of independent Claims 201 and 211, and the claims dependent therefrom, include all of the limitations of the ink of present independent Claim 1, Applicants submit that Claims 201 and 211 are in condition for rejoinder and allowance should Claim 1 be found to be allowable.

Applicants respectfully request the rejoinder and allowance of Claims 70, 80, 90, 100, 110, 120, 130, 140, 161, 171, 181, and 191 and claims dependent therefrom, and their passage to issue.

Applicants submit the claims are in condition for allowance and respectfully request the Office provide a Notice of Allowance indicating the same.

Respectfully submitted,

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